

Bryophytes of Uganda, 6. New and additional records, 3.

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Abstract 12 hepatics and 32 mosses are reported new to Uganda, 1 moss being also new to Africa, and 1 liverwort new to mainland Africa. *Ectropothecium plumigerum* (Broth.) Hedenäs is a new combination (basionym: *Isopterygium plumigerum* Broth.) with a new synonym *Taxicaulis plumirameus* Müll.Hal. nom. nud., and *Taxiphyllum maniae* (Renauld & Paris) M. Fleisch. is a new synonym of *Taxiphyllum taxirameum* (Mitt.) M. Fleisch. Three mosses are removed from the Uganda list.

INTRODUCTION

This is the sixth paper giving results of the British Bryological Society (BBS) Expedition to Uganda, supported by the UK Darwin Initiative Fund. The first paper of the series (Wigginton, *et al.* 1999) provides the background to the expeditions, and full details of the numbered

collecting sites. Reference should be made to that paper for latitude/longitude and UTM reference points and the general habitat. Most of the records were made during the BBS Expeditions to Uganda in 1996, 1997 and 1998, although some were collected by earlier workers and lodged unidentified in BM, and others were collected by G. & S. Miehe and K. Wesche from

University of Marburg, Germany, as part of their studies on tropical montane ecology. Only a small proportion of the BBS collections have so far been examined, and so additional collections of at least some of the taxa listed in this paper are to be expected. A number of identifications have been made in genera yet to be revised, and it has not been possible to check all of these against types. Where comment is made about any taxon, the author's initials are added in square brackets.

Nomenclature follows O'Shea (1999) for mosses, and Wigginton (2002) for liverworts, except where otherwise stated. For each record we give the district, site name, site number in parentheses, habitat, altitude, date, collector and specimen number. Specimens will be deposited at the Royal Botanic Garden, Edinburgh, and at the Herbarium, Department of Botany, Makerere University, Kampala.

Abbreviations: NP: National Park; FR: Forest Reserve; MUBFS: Makerere University Biological Field Station (at Kanyawara, Kibale NP, Fort Portal).

* = new to Uganda

** = new to Africa

LIVERWORTS

ARNELLIACEAE

**Gongylanthus ericetorum* (Raddi) Nees
KAPCHORWA: Mt. Elgon NP: Siti River (133), on humic soil overlying rock, with *Cephaloziella umtaliensis*, *Bryum* spp., 2800 m, 16 July 1998, *Porley 9299b*; Hunter's Cave to Piswa trail (127), on compacted peaty soil of path, with *G. renifolius*, 3500 m, 11 July 1998, *Porley 9156a*, both det. M.J. Wigginton. Widespread montane species in tropical Africa. [MJW]

**Gongylanthus renifolius* (Mitt.) Steph.
KAPCHORWA: Mt. Elgon NP: Hunter's Cave to Piswa trail (127), on compacted peaty soil of path, with *G. ericetorum*, 3500 m, *Porley 9156e*, det. M.J. Wigginton. This taxon is distinguished from *G. ericetorum* by the somewhat larger size,

the lingulate leaves, the conspicuous trigones of leaf cells, and the larger number of smaller oil-bodies. The oil-bodies in *Porley 9156e* closely match those described and illustrated in Kis & Pócs (1997). *G. renifolius* is apparently very local in Africa, the only other records coming from Rwanda, Tanzania and South Africa. [MJW]

CEPHALOZIELLACEAE

**Cephaloziella umtaliensis* S.W. Arnell
KAPCHORWA: Mt. Elgon NP: Siti River (133), on humic soil overlying rock, with *Gongylanthus ericetorum*, *Bryum* spp., 2800 m, 16 July 1998, *Porley 9299a*, det. M.J. Wigginton, conf. J. Váňa. Otherwise known only from single collections in Malawi, Mozambique and Zimbabwe. [MJW]

**Cephaloziella vaginans* Steph. KAPCHORWA: Mt. Elgon NP: caldera rim (120), soil in rock crevices, 4280m, 8 July 1998, *Porley 9081a*; caldera rim (123a), on soil, 3995 m, 10 July 1998, *Matcham 12358b*, both det. J. Váňa. Scattered records from tropical and southern Africa. [JV]

Cylindrocolea gittinsii (E.W. Jones) R.M. Schust. BUSHENYI: East of Kalinzu Forest Reserve, ca. 100 m S. of forest (52), on steeply sloping rock above drainage ditch by main road, 1490 m, 4 February 1997, *Hodgetts 4577e*, det. J. Váňa. This is the second record from Uganda, the other from being from the banks of the Nile near Murchison Falls (coll. *Gittins 7a*, 1956). Otherwise known from Kenya and Rwanda, and doubtfully from Cameroon. [JV]

**Kymatocalyx dominicensis* (Spruce) Váňa
RUKUNGIRI: Bwindi-Impenetrable Forest NP, Buhoma, Munyaga waterfall (7), on wet rocks, in pure patches or intermixed with *Riccardia* sp., associated with *Jungermannia* sp., *Campylopus* sp., *Fissidens* sp., 1700 m, 7, 8 February 1997, *Hodgetts 4630a*; *Wigginton 8335a*, both conf. J. Váňa. A species known mainly from the neotropics, but recently detected in collections from Madagascar (Gradstein & Váňa 1999). The first record from mainland Africa [MJW]

JUNGERMANNIACEAE

***Andrewsianthus bilobus* (Mitt.) Grolle**
KAPCHORWA: Mt. Elgon, S. of Piswa Hut (128), epiphyte on *Olea africana*, 2820 m, 13 July 1998, *Matcham 11504a*, det. J. Váňa. This appears to be the first record from the Ugandan side of Mt. Elgon. Other Uganda records are from Mt. Rwenzori and Mt. Muhavura. Very local in tropical West and East Africa. [JV]

****Lophozia decolorans* (Limpr.) Steph.** M_{BALE}: Mt. Elgon, on stone in *Erica*-regeneration area, 3460 m, 7 March 1997, *K. Wesche 1034*, det. J. Váňa; Mt. Elgon; W flanks of Mt. Elgon, Sironko Escarpment above Dirigana valley, isolated shrubs of *Erica trimera* on basalt plateau, surrounded by rock grassland, 4000 m, 25 January 1997, *G. and S. Miehe U 02-1067903*, det. J. Váňa. Rare in Africa, the other records from Cameroon, Tanzania and D.R. Congo. [JV]

****Jungermannia pumila* With.** M_{BALE}: Mt. Elgon, Dirigana River above Dirigana falls, over wet rocks in waterfall, 61/644279, 3580 m, 6 March 1996, *K. Wesche 9094*, det. J. Váňa (Herb. Miehe). The other sub-Saharan records are from Tanzania, Lesotho and South Africa. [JV]

LEJEUNEACEAE

****Lejeunea cyathearum* E.W.Jones** BUSHENYI: Kalinzu Forest (49), on trunk of *Cyathea*, humid place by stream, 1440 m, 14 February 1997, *Wigginton 8058b*, det. M.J. Wigginton. An apparently local species, with a few records from Malawi, Rwanda, Tanzania, eastern D.R. Congo and the Comoro Islands. [MJW]

****Lejeunea villaumei* (Steph.) Grolle**
RUKUNGIRI: Bwindi NP: valley east of Kasiru (56), on tree-fern trunk, 2050 m, 28 January 1996, *Hodgetts 4099f*, det. M.J. Wigginton. Local in East Africa and the East African Islands. [MJW]

****Leucolejeunea uncioba* (Lindenb.) A.Evans**
KABAROLE: Kibale NP: Kanyanchu (36), epiphytic on *Plagiochila* sp. and *Porella* sp. on

forest tree, 1300 m, 31 January 1997, *Hodgetts 4494e*, det. M.J. Wigginton. Apparently very local in Africa, the few other records being from Kenya, Tanzania and South Africa. [MJW]

****Marchesinia excavata* (Mitt.) Schiffn.**
RUKUNGIRI: Bwindi-Impenetrable Forest NP: Buhoma, path to Munyaga waterfall (70), on fallen log in forest, 1500 m, 2 February 1996, *Hodgetts 4243a*, det. M.J. Wigginton. A fairly widespread species in tropical Africa. [MJW]

****Mastigolejeunea nigra* (Steph.) Steph.**
MASINDI: Budongo Forest Reserve: Nyakafunjo Nature Reserve (6), on twigs near top of fallen tree, 1060 m, 24 January 1997, *Hodgetts 4349a*, and on tree trunk in Royal Mile (4b), 26 January 1997, *Hodgetts 4397a*, both det. M.J. Wigginton. *M. auriculata* was common in the surveyed areas of Budongo Forest, occurring on tree trunks and shrubs. In contrast, *M. nigra* was infrequently collected. One other record from Uganda (Rakai District). Fairly widespread in tropical West and East Africa. [MJW]

RICCIACEAE

****Riccia stricta* (Lindenb.) Perold** KABAROLE: Kibale NP: near Dura River on road to Kanyanchu (35), on damp mud in stormwater gully on roadside, 1265 m, 25 February 1996, *Wigginton 5274a*; Rwenzori NP: path to Mahoma river crossing (39c), on damp soil by path, 1820 m, 2 February 1997, *Wigginton 8421a*. In Uganda, previous records of this widespread species are from Kasese, Kitgum, Mpigi and Mubende Districts. Widespread in tropical to southern Africa. [MJW]

SCAPANIACEAE

****Scapania cuspiduligera* (Nees) Müll.Frib.**
KAPCHORWA: Mt. Elgon NP: Hunter's Cave to caldera rim (118), on shaded rocks, with *Pseudosymblypharis bombayensis*, *Barbula indica* and *Campylopus* sp., 3890 m, 10 July 1998, *Duckett 11235a*, det. H.W. Matcham. In Africa, otherwise recorded only from Lesotho and D. R. Congo; widely disjunct in Europe, North and South America, Siberia and Japan. [HWM]

MOSSES**CALYMPERACEAE**

All collections in the family identified or confirmed by L.T. Ellis.

****Syrrhodon africanus ssp. africanus* (Mitt.)**

Paris BUSHENYI: E. of Kalinzu FR: Rushisha stream (51), on tree branch in forest, 1500 m, 4 February 1997, *Wigginton 8080d*; on trunk of young tree in forest, above ravine, 1460 m. *Hodgetts 4557a*. RUKUNGIRI: Bwindi NP, path from Buhoma towards Rukubira (68), fallen twigs from forest canopy, 1650 m, 2 February 1996, *Porley 269a*. The subspecies is endemic to Africa, mainly in the west but also in D.R. Congo, Tanzania and Madagascar. There are two other subspecies, one endemic to Africa, one to the neotropics. [LTE]

****Syrrhodon incompletus var. incompletus***

Schwägr. KABAROLE: Kibale NP: Kanyawara (N) (32b), on shaded tree trunk 1.5 m above ground, 1550 m, 27 January 1998, *Bates 8517a*; Kibale NP: Kanyawara (S) (32a), 1470 m, on moderately well-lit face of tree buttress in moist forest, 30 January 1998, *Bates 8545a*. Mainly a new world species but known in Africa from D.R. Congo and Tanzania. [LTE]

****Syrrhodon perdusenii* W.D.Reese**

RUKUNGIRI: Bwindi NP: Bukirobwomogogo and path to Meizimeru camp (58), 1750 m, 29 January 1996, epiphytic on rachis of *Tectaria* sp., *Porley 172c*; Bwindi NP: Buhoma, main path, and path to waterfall (70), on branch fallen from forest canopy, 1650 m, 7 February 1997, *Wigginton 8315d*. Only known previously from 3 collections from Cameroon. [LTE]

CINCLIDOTACEAE****Cinclidotus fontinaloides* (Hedw.) P.Beauv.**

KAPCHORWA: Mt. Elgon NP, Siti River, on rocks, above and below the waterline, 2800 m, 16 July 1998, *Matcham 11560a*, det. H.W. Matcham. Previously known from Kenya and Tanzania. [HWM]

DICRANACEAE****Aongstroemia julacea* (Hook.) Mitt.**

KAPCHORWA: Mt. Elgon, Hunters' Cave to Piswa Trail (127), on compacted damp soil of path, 3500 m, 11 July 1998, *Porley 9156b*, det. J.-P. Frahm. Occasional in eastern and southern Africa, and the Indian Ocean islands, but probably overlooked. [JPF]

****Campylopus cambouei* Renauld & Cardot.**

KABALE: Bwindi NP, near Ruhija, nature reserve path (82), on earth bank, 2270 m, 25 January 1996, *Porley 19b*, det. J.-P. Frahm. Widespread, but uncommon. [JPF]

****Campylopus crateris* Besch.**

KAPCHORWA: Mt. Elgon, caldera floor, below rim (121), on caldera floor amongst grass, 3990 m, 8 July 1998, *Porley 9089a*, det. J.-P. Frahm. Known previously only from one collection in the Aberdare mountains in Kenya, and a few more in the Indian Ocean islands (Comoros, Madagascar and Réunion). [JPF]

****Campylopus decaryi* Thér.**

KASESE: Kilembe copper and cobalt mine, level 45 (45), on gravel edge of stream, 1360 m, 1 February 1997, *Porley 541a*, det. J.-P. Frahm. Rare, otherwise known only from D.R. Congo, South Africa and Madagascar. [JPF]

****Campylopus kivuensis* P.de la Varde & Thér.**

KAPCHORWA: Mt. Elgon, caldera floor, below rim (121), damp rock on caldera floor, 3990 m, 8 July 1998, *Porley 9090b*, det. J.-P. Frahm. Otherwise known only from the type locality and one other collection in Kivu, eastern D.R. Congo (Zaire), and an unlocalised collection. [JPF]

****Campylopus praetermissus* J.-P.Frahm**

KABALE: Bwindi NP, Ruhija, main track to Kabale, ca. 175 m from barrier (79), on loamy forest bank by the track, 2300 m, 25 January 1996, *Bates 2046b*, det. J.-P. Frahm; Bwindi NP, along trail to NE (83a), on tree trunk by forest trail, 2025 m, 28 January 1996, *Bates 2150b*, det. J.-P. Frahm. RUKUNGIRI: Bwindi NP. Buhoma waterfall (70), on wet rocks, 1580 m, 8 February

1997, *Porley 635a*, det. J.-P. Frahm. Only known from Africa. [JPF]

ERPODIACEAE

**Erpodium beccarii* var. *beccarii* Müll.Hal. ex Venturi MBARARA: Lake Mburu NP, epiphyte on branch of *Rhus* sp., 1250 m, 20 July 1998, *Duckett 11396a*, det. H.W. Matcham. This species is widespread in eastern and southern Africa. [HWM]

FISSIDENTACEAE

All collections in this family identified or confirmed by M.A. Bruggeman-Nannenga.

**Fissidens angustifolius* Sull. BUSHENYI: Kalinzu Forest Reserve near Nkombe sawmill (49), on rotten wood (bark), 1440 m, 4 February 1997, *Porley 575a*; on rotten log in forest, *Hodgetts 4552c*; bark of dead tree, *O'Shea 2978 a*. A pantropical species. [MABN]

**Fissidens bogosicus* Müll. Hall. TORO: Queen Elizabeth NP, Mweya Lodge, on rock at base of wall, always moist during rain. *Lock 88/24* (BM-Kew). South and East Africa, also reported from the Cape Verde Islands. [MABN]

**Fissidens curvatus* Hornsch. RUKUNGIRI: Bwindi NP, Ishasha Gorge (75a), on stone by river, 1180 m, 7 February 1997, *Hodgetts 4596a* (mixed with the *F. schmidii*). KAPCHORWA: Mount Elgon, several collections by K. Wesche: on soil in swamp *Wesche* sample 214, no 1733; 3200 m; 19 XI 1997; sample 61, no 2357 on soil in tussock grassland, 3600 m, 11 December 1996; no. 9085, on wet rocks in afro-alpine zone; and sample 3875, no 1021, on soil (all herbarium Bruggeman-Nannenga; 214, 1733 also in E). A cosmopolitan species. [MABN]

**Fissidens flaccidus* Mitt. KABAROLE: Kibale Forest NP: Dura River road bridge (35), low on abutment of the bridge, within 1 m of the water level, in area of lush forest, 1265 m, 1 February 1998, *Bates 8608a*; Between Isunga and Dura River (34), on shaded earth bank of road south to Dura Bridge within forest, 1270 m, 1 February

1998, *Bates 8630a*. Known from Africa and the neotropics. [MABN]

**Fissidens pellucidus* Hornsch. RUKUNGIRI: Bwindi NP, Buhoma, Kigina River, W of track S of Buhoma (73), on bark of rotten log, 1620 m, 8 February 1997, *O'Shea 5556a, 5557a*; Bwindi NP, Buhoma, path to waterfall (70), on trunk of shrub, 1550 m, 8 February 1996, *Porley 627a*. A pantropical species. [MABN]

**Fissidens lachmanii* Bizot BUSHENYI: Kasyoha-Kitomi (North Ankola) FR (53), on stone in stream, 1350 m, 5 February 1997, *Porley 607a*. African species. [MABN]

**Fissidens marthae* Cardot KABAROLE: Tributary of Mahoma River, Mupanga Falls (26), on soil by tree buttress, 1300 m, *Porley 495a*. African species. [MABN]

**Fissidens ovatus* Brid. KAPCHORWA: S of Piswa Hut, Mt Elgon (112), 2850 m, 12 July 1998, *Porley 9164a, 9177b*. KABAROLE: Rwenzori NP, Mahoma River (39e), 2100 m, 2 February 1997, *Porley 552d, Hodgetts 4520a, 4522b* and *Wigginton 8052c*. MBALE: Bulago, on wet rocks below falls, \pm 200 m. *Thomas 2582* (BM). Endemic to Africa, common and widespread [MABN].

**Fissidens ramulosus* Mitt. Selected specimens: KABAROLE: Kibale NP: near Kanyanchu (35), on mud in storm water gully by road, 1265 m, 25 February 1996, *Wigginton 5274b*. MASINDI: Budongo Forest, Royal Mile (4a), on soil bank by forest road, 1070 m, 24 January 1997, *Wigginton 3109a*. MPIGI: Mpanga Forest nature reserve (94), rainforest, on termite mound in forest, 4 March 1996, 1190 m, *Wigginton 5249a*. RUKUNGIRI: Bwindi forest, Buhoma, waterfall trail (70), on shaded rock by forest path, 7 February 1997, 1670 m. *Wigginton 8342 a*. African species, rather common in Uganda, older collections often identified as *F. erosulus*. [MABN]

**Fissidens robynsianus* P. de la Varde in Demar. & P. de la Varde KAPCHORWA(?): Mt Elgon, wet rock in afro-alpine zone, 3870 m,

Wesche 1907 (herbarium Bruggeman-Nannenga). A rare, rheophilous African species also known from high altitudes in D.R. Congo [MABN]

**Fissidens submarginatus* Krauss Selected specimens: BUSHENYI: Kasyoha-Kitomi FR, near tributary of Chambura R (53), on soil bank by path in forest, 1350 m, 5 February 1997, *Hodgetts 4587a*. KABALE: Bwindi Forest, near Mubwindi Swamp (81b), on rotting log by forest path, 26 January 1996, 2150 m, *Wigginton 5115a*. KABAROLE: Sebitoli Forest: S of Mpanga R, N of Fort Portal-Kampala road (31a), very old rotten tree trunk, 1400 m, 28 January 1997, *O'Shea 2776a*. RUKUNGIRI: Bwindi-Impenetrable NP, Buhoma, Waterfall trail (70), soil in path, 1650 m, 7 February 1997, *O'Shea 5510a*; soil bank by path, forest near waterfall, 1680 m, *Wigginton 8327a*. Not uncommon in Uganda. Probably often identified as *F. intramarginatus* [MABN]

Fissidens schmidii Müll.Hal. KAPCHORWA(?): Mt Elgon, boulder in stream, 3870 m, *Wesche 1772 (sample 241)*. MASINDI: Budongo Forest, near Sonso (9), on soil bank in humid forest, 960 m, 26 January 1997, *Wigginton 3161c*. RUKUNGIRI: Bwindi NP, Ishasha Gorge (75a), small stones by river at edge of forest, 1180 m, 7 February 1997, *Hodgetts 4596a*. Species known from Asia and Africa. Closely related to the neotropical *F. crispus* Brid. [MABN]

**Fissidens zollingeri* Mont. Selected specimens: KABAROLE: Kibale Forest NP. Kanyawara (S), in dense forest well north of Kanyawara (32a), radiating colonies on clayey soil by path near the E4 junction, 1475 m, 2 February 1998, *Bates 8644a*. KAMPALA: Mpanga FR, on hard earth of path in shade, August 1955, *Jones 600* (BM-Kew). MPIGI: Mpanga Forest Nature Reserve (94), rainforest, on termite mound in forest, 1190 m, 4 March 1996, *Wigginton 5249a*. MASINDI: Budongo Forest, Royal Mile (4a) on soil bank by forest road, 1060 m, 24 January 1997, *Wigginton 3109a*. In Uganda not uncommon. Pantropical species. [MABN]

FONTINALACEAE

**Fontinalis antipyretica* var. *antipyretica* Hedw. KAPCHORWA: Mt. Elgon National Park, central part of caldera near Makutano, floating in a large permanent stream, UTM 36N/0601/731272 (E 34°33' N 10°3'), 3800 m, 17 Mar 1996, *K. Wesche H-9038* (E), det. B.J. O'Shea, conf. R.D. Porley. Not previously known from East Africa, although recorded from Ethiopia, Eritrea and South Africa's Cape province. This taxon, along with *Fontinalis squamosa*, has usually been considered as an introduction to South Africa with fish from northern Europe, but this is more difficult to argue for the Horn of Africa as *F. antipyretica* is known from several of the North African Mediterranean countries, and it could be regarded as almost within the normal distribution range, although all Ethiopian/Eritrean collections are from altitudes between 2000 and 2800 m. Mt. Elgon at 3800 m fits neither pattern very well, and although it could have been an introduction with fish, it could also be an introduction by birds to an area with conditions that parallel those of its normal home. [BJO]

GRIMMIACEAE

**Racomitrium crispipilum* (Taylor) A.Jaeger KAPCHORWA: Mt. Elgon NP, 1°11' N 34°32' E, north facing slope of large boulder, 3995 m, 10 July 1998, *Matcham 12366a*, det. H.W. Matcham. Known previously from Rwanda and KwaZulu-Natal. [HWM]

HYPNACEAE

**Ectropothecium plumigerum* (Broth.) Hedenäs, comb. nov.

Basionym: *Isopterygium plumigerum* Broth., *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 24: 264. 1897.

Type: Cameroun. *Prope Batoki pagum, ad flumen Kette, In rupibus basalticus adesis (an Felsen von verwittertem Basalte)*, 5 February 1892, *P. Dusén 121* (S, 3 isotypes; reg. no. B78025, B78026, B78027).

Taxicaulis plumirameus Müll. Hal., *Index Bryologicus* 709. 1897, *nom. nud.*, *syn. nov.*

Orig. mat.: Cameroun, ad Lifenja pagum, In *truncis putridis*, 3 April 1892, P. Dusén 683 (*S*; *reg. no* B78022, B78023, B78024).

MPIGI: Mpanga Forest Reserve, near Entebbe, E. W. Jones 623 (*E*); *KABAROLE*: Kibale Forest, Kanyanchu (38), 1220 m, 31 January 1997, Wigginton 8042a, with *Vesicularia galerulata* (Duby) Broth. *BUSHENYI*: Kalinzu Forest, Rushisha stream (51), 1430 m, 4 February 1997, Wigginton 8089d. *MASINDI*: Budongo FR, Pabidi Forest (10a) 980 m, 25 January 1997, Wigginton 3124a. *Previously known from Cameroon and Gabon.*

***Hypnum revolutum* (Mitt.) Lindb. *KAPCHORWA*: Mt. Elgon, Caldera rim, Mubiyi, (122), in rock cleft, 4210 m., 9 July 1998, *Porley 9131b*, det. L. Hedenäs. Mainly a plant of high latitudes, most widespread in the northern hemisphere, but also known from the mountains of Iran through Pakistan, India and into China, and from Mexico. [BJO]

**Rhacopilopsis variegata* (Welw. & Duby) M.C.Watling & O'Shea *KABAROLE*: Kibale NP: MUBFS (32b), in lawn on steep bank behind laboratory block, 1500 m, 27 January 1998, *J.W. Bates 8518a*, det. J.W. Bates, conf. B.J. O'Shea. This is an African endemic, found throughout mainland tropical and southern Africa and in Madagascar, but often in limited quantity, and possibly overlooked. [BJO]

**Taxiphyllum taxirameum* (Mitt.) M.Fleisch. (= *T. maniae* (Renauld & Paris) M. Fleisch. *syn. nov.*) *KABAROLE*: Kabata, Mahoma River (27), upper waterfall, on shaded rocks and roots by waterfall, 1320 m, 30 January 1997, *Hodgetts 4466d*, det. L. Hedenäs. This is a genus in need of revision, and more synonyms are likely to appear in Africa of this widespread pantropical taxon. It is found at a wide range of altitudes, from the Himalayas to Pacific Ocean islands. [BJO]

MNIACEAE

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**Plagiomnium rhynchophorum* var. *reidii* (Dixon) T.J.Kop. *KAPCHORWA*: Mt. Elgon NP, S of Piswa Hut (112), 2800 m, 12 July 1998, *Porley 9169a*, det. M.C. Watling. An African endemic, mostly in the south but also in eastern Africa. [BJO]

POTTIACEAE

**Eucladium verticillatum* (Brid.) Bruch, Schimp. & W. Gümbel *KAPCHORWA*: Mt. Elgon NP. Siti River (133), in darkened recess of cave, 2800m, 16 July 1998, *Porley 9297a*, det. R.D. Porley, conf. H.W. Matcham. Previously recorded from Cape Verde, Chad, D.R.Congo, Ethiopia, Mali, Rwanda, Socotra and Tanzania. [HWM]

SEMATOPHYLLACEAE

**Gammiella ceylonensis* (Broth.) B.C.Tan & W.R.Buck *RUKUNGIRI*: Bwindi-Impenetrable NP, Buhoma, Waterfall Trail, 1585 m, 7 February 1997, *M.J. Wigginton 8345e*, det. B.J. O'Shea. (This record already published in O'Shea 2003, in a review of this genus in Africa.)

DELETIONS

The following three records must be deleted from the Uganda list:

Leucophanes angustifolium Renauld & Cardot in Cardot. This taxon is recorded for Uganda based on Potier de la Varde's report (1956); however the specimen concerned, *G.H.S. Wood 1030*, was identified by Salazar Allen (1993) as *L. mollerii* (conf. L.T. Ellis).

Leucophanes hildebrandtii Müll.Hal. Recorded for Uganda in Porley et al. (1999) based on *R.D. Porley 247a*; this has now been re-identified as *L. mollerii* (conf. L.T. Ellis).

Syrrhopodon parasiticus (Sw. ex Brid.) Besch. This taxon was added to the Uganda list (Porley et al., 1999) based on *R.D. Porley 269a*, but this

collections has been re-identified as *S. africanus* (conf. L.T. Ellis; new to Uganda, see above).

References

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